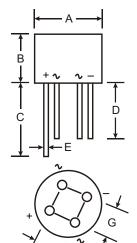


2W005G - 2W10G

2.0A GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Diffused Junction
- Low Forward Voltage Drop, High Current Capability
- Surge Overload Rating to 60A Peak
- Ideal for Printed Circuit Boards
- Case to Terminal Isolation Voltage 1500V
- Plastic Material: UL Flammability Classification Rating 94V-0
- UL Listed Under Recognized Component Index, File Number E94661



WOG					
Dim	Min	Max			
Α	8.84	9.86			
В	4.00	4.60			
С	27.90	_			
D	25.40	_			
E	0.71	0.81			
G	4.60	5.60			
All Dimensions in mm					

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Also Available in Lead Free Plating (Matte Tin Finish). Please see Ordering Information, Note 4, on Page 3
- Polarity: As marked on BodyWeight: 1.3 grams (approx.)
- Mounting Position: AnyMarking: Type Number

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

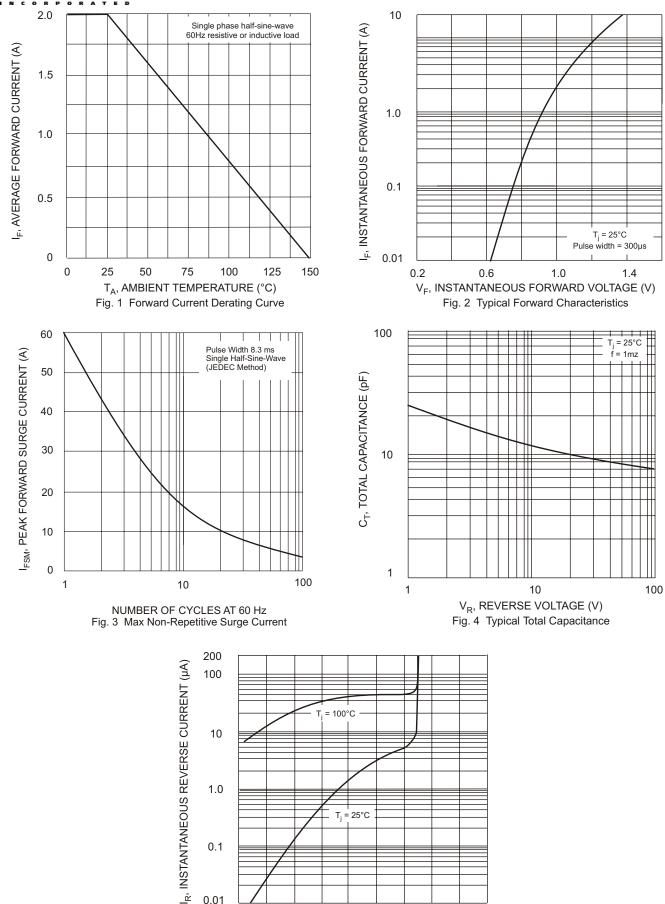
Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	2W 005G	2W 01G	2W 02G	2W 04G	2W 06G	2W 08G	2W 10G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current @ 1	√A = 25°C	Io	2.0					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load per element (JEDEC Method)		I _{FSM}	60					А		
Forward Voltage (per element) @	$I_F = 2.0A$	V_{FM}				1.1				V
	x = 25°C x = 125°C	I _{RM}	5.0 500			μА				
Typical Total Capacitance (Note 2) C _T		16				pF				
Typical Thermal Resistance Junction to Case		R ₀ JC	40				°C/W			
Operating and Storage Temperature Range		T _j , T _{STG}	-65 to +150					°C		

Notes: 1. Thermal resistance from junction to case mounted on PC board with 13 x 13mm (0.03mm thick) land areas.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.





80

PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics

160

120

40

0.1

0.01



Ordering Information (Note 3)

Device	Packaging	Shipping			
2W005G-7	WOG	1K Bulk			
2W01G-7	WOG	1K Bulk			
2W02G-7	WOG	1K Bulk			
2W04G-7	WOG	1K Bulk			
2W06G-7	WOG	1K Bulk			
2W08G-7	WOG	1K Bulk			
2W10G-7	WOG 1K Bulk				

Notes:

- For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.
 For Lead Free version (with Lead Free terminal finish) part number, please add "-F" suffix to part number above. Example: 2W04G-7-F.